

Number and Operations – Fractions

Grade: 5	Subject: Math						
MAFS.5.NF.2.6 Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem. <i>Cognitive Complexity: Level 2: Basic Application of Skills & Concepts</i>							
Concepts -Students should know <u>Nouns</u> <ul style="list-style-type: none"> • Real world problems • Multiplication • Fractions • Mixed numbers • Visual fraction models • Equations 	Skills -Students should be able to do <u>Verbs</u> <ul style="list-style-type: none"> • Solve (real world problems) • Using (visual fraction models) • Using (equations) 						
Big Ideas: <ul style="list-style-type: none"> • Multiplication of fractions and mixed numbers can be represented in a variety of ways. • Fractions and mixed numbers can be used to solve real world problems. 							
Essential Questions: <ul style="list-style-type: none"> • When would we multiply fractions or mixed numbers in real life? • How can you represent a multiplication problem using fractions and mixed numbers? • What models or equations can be used to efficiently solve problems using fractions and mixed numbers? 							
Learning Goal: I can: <ul style="list-style-type: none"> • Solve real world problems involving multiplication of fractions and mixed numbers • Use visual fraction models or equations to represent the problem. 							
Scale: <table border="1" data-bbox="175 1434 1414 1934"> <tr> <td data-bbox="175 1434 261 1541">4</td><td data-bbox="261 1434 1414 1541">I can create and solve real world problems involving multiplication of fractions and mixed numbers.</td></tr> <tr> <td data-bbox="175 1541 261 1724">3</td><td data-bbox="261 1541 1414 1724"> I can: <ul style="list-style-type: none"> • Solve real world problems involving multiplication of fractions and mixed numbers • Use visual fraction models or equations to represent the problem. </td></tr> <tr> <td data-bbox="175 1724 261 1934">2</td><td data-bbox="261 1724 1414 1934"> I can define vocabulary such as <ul style="list-style-type: none"> • Real world problems, multiplication, fractions, mixed numbers, visual fraction models, equations I can: </td></tr> </table>		4	I can create and solve real world problems involving multiplication of fractions and mixed numbers.	3	I can: <ul style="list-style-type: none"> • Solve real world problems involving multiplication of fractions and mixed numbers • Use visual fraction models or equations to represent the problem. 	2	I can define vocabulary such as <ul style="list-style-type: none"> • Real world problems, multiplication, fractions, mixed numbers, visual fraction models, equations I can:
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2	I can define vocabulary such as <ul style="list-style-type: none"> • Real world problems, multiplication, fractions, mixed numbers, visual fraction models, equations I can:						

	<ul style="list-style-type: none"> • Translate word problems involving multiplication of fractions and mixed numbers into mathematical expressions. • Represent word problems involving multiplication of fractions and mixed numbers. • Use visual models to represent problem situations.
1	With help, I can have partial success with 2.0 content.